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L3	2	(remot\$4 near6 program\$6)same (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:06
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L5	0	(remot\$4 near6 (download\$4 or upgrad\$4 or program\$6 or configur\$5))with (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT;	OR	OFF	2005/01/10 12:14
L6	31	((download\$4 or upgrad\$4 or program\$6 or configur\$5))with (pager adj network)	IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:15
L7	19	((download\$4 or upgrad\$4 or program\$6 or configur\$5)near6 (device or pager or apparatus))with (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:16
L8	0	I7 same (identification or id)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2005/01/10 12:16

L9	17	17 and (identification as id)	LIC DCDUID	OD	OFF	2005/01/10 12:22
L9	17	I7 and (identification or id)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:33
L10	1	((portable or handheld)near3 (device or apparatus))near6 ((reprogram\$6 or configur\$6 or upgraded) with (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:36
L11	5250	harper.inv.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:36
L12	134	l11 and howard	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:37
L13	11	l11 and (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 12:37
L14	11	l12 and (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO;	OR	OFF	2005/01/10 13:45
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L15	232	379/4.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:46
L16	0	l15 and (pager adj network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:45

L17	99066	"379"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
L18		I17 and ((remot\$4 near6 (download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
L19	13514	"380"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
L20	40287	"700"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:54
L21	0	I19 and ((remot\$4 near6 (download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:48
L22	0	I20 and ((remot\$4 near6 (download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:55
L23	2	I20 and (((download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:54
L24	1	l19 and (((download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:49

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L25	22989	"713"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:54
L26	2	I25 and (((download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 14:18
L27	0	I25 and ((remot\$4 near6 (download\$4 or upgrad\$4 or program\$6 or configur\$5))same (pager adj network))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 13:55
L28	16937	((provid\$4 or suppl\$4 or communicat\$4 or transfer\$4)near4 (identification or id))with (portable or handheld or device or apparatus)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 14:20
L29	5	(((provid\$4 or suppl\$4 or communicat\$4 or transfer\$4)near4 (identification or id))with (portable or handheld or device or apparatus or controller))same (pager near3 network)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/01/10 14:21

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Print Format

4 The temporal response and relative proton-to-gamma ratio of radiat detectors made from natural diamond

Wagner, R.S.; Joseph, J.R.; Hilko, R.A.; Harper, R.W.; Tinsley, J.R.; Nuclear Science Symposium and Medical Imaging Conference, 1992., Conferen Record of the 1992 IEEE , 25-31 Oct. 1992 Pages:88 - 90 vol.1

[Abstract] [PDF Full-Text (288KB)] IEEE CNF

5 Sensitivity of PCDs to protons and photons as a function of applied detector voltage

Hilko, R.A.; Harper, R.W.; Droemer, D.W.; Liljestrand, R.P.; Wagner, R.; Brad

J.;

Nuclear Science Symposium and Medical Imaging Conference, 1991., Conferen Record of the 1991 IEEE , 2-9 Nov. 1991 Pages:70 - 74 vol.1

[Abstract] [PDF Full-Text (304KB)] IEEE CNF

6 Response of PCDs to low-energy protons

Hilko, R.A.; Harper, R.W.; Droemer, D.W.; Liljestrand, R.P.; Klingler, Q.; Wart B.J.; Stelts, M.L.; Wagner, R.; Bradley, J.; Nuclear Science Symposium and Medical Imaging Conference, 1991., Conferen Record of the 1991 IEEE, 2-9 Nov. 1991 Pages:65 - 69 vol.1

[Abstract] [PDF Full-Text (348KB)] IEEE CNF

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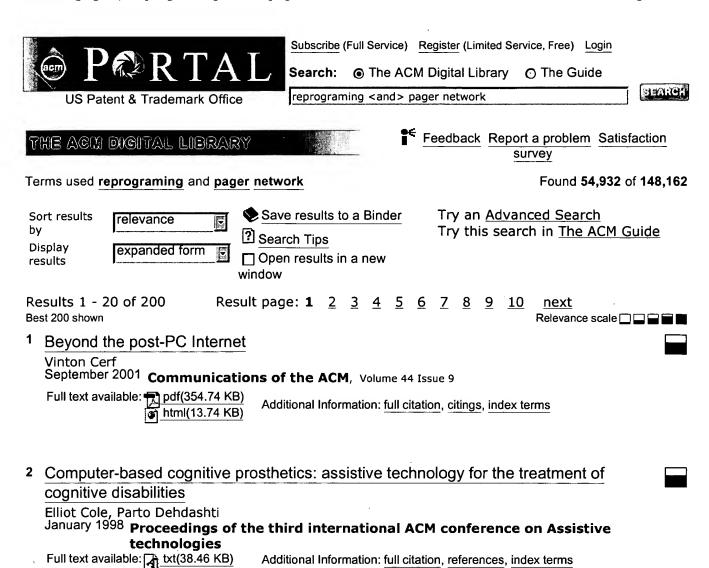
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Keywords: cognitive disabilities, cognitive prosthetics, health care applications, learning disabilities, personal productivity tools, usability testing, user interfaces, user studies

3 Intelligent management of network devices aided by a strategy and a tool

Calebe de Paula Bianchini

October 2003 Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a Latin American agenda for network research

Full text available: pdf(1.31 MB)

Additional Information: full citation, abstract, references

The increasing decentralization of computational resources and the need for distributed and heterogeneous systems management have motivated the development of strategies and tools to assist network administrators in a great part of their tasks through automatic monitoring of devices. Combining the ideas of pervasive computing and software agents, this work presents a tool for monitoring devices distributed in a network and guided by a well-defined strategy. The tool uses intelligent software ...

Keywords: computer network management, intelligent management, intelligent software agents, pervasive computing, software engineering

4 Experiences with network-based user agents for mobile applications



Full text available: pdf(631.57 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

5 Wide-area monitoring of mobile objects: Energy-efficient surveillance system using wireless sensor networks

Tian He, Sudha Krishnamurthy, John A. Stankovic, Tarek Abdelzaher, Liqian Luo, Radu Stoleru, Ting Yan, Lin Gu, Jonathan Hui, Bruce Krogh

June 2004 Proceedings of the 2nd international conference on Mobile systems, applications, and services

Full text available: pdf(850.60 KB)

Additional Information: full citation, abstract, references, citings, index terms

The focus of surveillance missions is to acquire and verify information about enemy capabilities and positions of hostile targets. Such missions often involve a high element of risk for human personnel and require a high degree of stealthiness. Hence, the ability to deploy unmanned surveillance missions, by using wireless sensor networks, is of great practical importance for the military. Because of the energy constraints of sensor devices, such systems necessitate an energy-aware design to ensu ...

Keywords: energy conservation, sensor networks, tracking, wireless

6 Posters: Infuse: a TDMA based reprogramming service for sensor networks

Mahesh (Umamaheswaran) Arumugam

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(86.73 KB)

Additional Information: full citation, abstract, references, index terms

Programming or upgrading the software in sensor networks is one of the important problems since the sensors are often deployed in large numbers and in hostile environments. In this paper, we present <i>infuse</i>, a reliable over the air reprogramming service for sensor networks using time division multiple access (TDMA) protocol. In case of unexpected channel errors, a back pressure mechanism is used to ensure reliable propagation. Moreover, we show that infuse propagates code in a p ...

Keywords: TDMA, network programming, sensor networks

Posters: MNP: multihop network reprogramming service for sensor networks

Limin Wang

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: 📆 pdf(110.29 KB) Additional Information: full citation, abstract, references, index terms

Reprogramming of sensor networks is an important and challenging problem as it is often desirable to reprogram the sensors in place. In this paper, we propose a multihop reprogramming service designed for Mica-2 motes. One of the problems in reprogramming is the issue of message collision. To reduce the problem of collision, we propose a sender selection algorithm that attempts to guarantee that in a <i>neighborhood</i> there is at most one source transmitting the program at a time. F ...

Keywords: code dissemination, network reprogramming, sensor networks

8	Tools: Automated tools to implement and test Internet systems in reconfigurable
	hardware

John W. Lockwood, Chris Neely, Chris Zuver, Dave Lim

July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3

Full text available: pdf(1.01 MB)

Additional Information: full citation, abstract, references, index terms

Tools have been developed to automatically integrate and test networking systems in reconfigurable hardware. These tools dynamically generate circuits for Field Programmable Gate Arrays (FPGAs). A library of hardware-accelerated modules has been developed that processes Internet Protocol (IP) packets, performs header rule matching, scans pocket payloads, and implements per-flow queueing. Other functions can be added to the library as extensible modules. An integration tool was developed to enable ...

Keywords: Field Programmable Gate Array (FPGA), Internet, firewall, network intrusion detection and prevention, networks, reconfigurable hardware, tools

9 Simulation: Simulating the power consumption of large-scale sensor network applications

Victor Shnayder, Mark Hempstead, Bor-rong Chen, Geoff Werner Allen, Matt Welsh November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(1.00 MB)

Additional Information: full citation, abstract, references, index terms

Developing sensor network applications demands a new set of tools to aid programmers. A number of simulation environments have been developed that provide varying degrees of scalability, realism, and detail for understanding the behavior of sensor networks. To date, however, none of these tools have addressed one of the most important aspects of sensor application design: that of power consumption. While simple approximations of overall power usage can be derived from estimates of node duty c ...

Keywords: TOSSIM, mica2 energy model, power simulation, sensor networks

10 Programming: The dynamic behavior of a data dissemination protocol for network programming at scale

Jonathan W. Hui, David Culler

November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Full text available: pdf(1.23 MB)

Additional Information: full citation, abstract, references, index terms

To support network programming, we present Deluge, a reliable data dissemination protocol for propagating large data objects from one or more source nodes to many other nodes over a multihop, wireless sensor network. Deluge builds from prior work in density-aware, epidemic maintenance protocols. Using both a real-world deployment and simulation, we show that Deluge can reliably disseminate data to all nodes and characterize its overall performance. On Mica2-dot nodes, Deluge can push nearly 9 ...

Keywords: dissemination protocols, network programming, wireless networks, wireless

sensor networks

11	Key establishment in sensor networks	: TinyPK:	securing	sensor	networks	with	public
	key technology						

Ronald Watro, Derrick Kong, Sue-fen Cuti, Charles Gardiner, Charles Lynn, Peter Kruus

October 2004 Proceedings of the 2nd ACM workshop on Security of ad hoc and sensor
networks

Full text available: pdf(204.55 KB) Additional Information: full citation, abstract, references, index terms

Wireless networks of miniaturized, low-power sensor/actuator devices are poised to become widely used in commercial and military environments. The communication security problems for these networks are exacerbated by the limited power and energy of the sensor devices. In this paper, we describe the design and implementation of public-key-(PK)-based protocols that allow authentication and key agreement between a sensor network and a third party as well as between two sensor networks. Our work ...

Keywords: TinyOS, authentication, cryptography, diffie-hellman, encryption, key management, public key (PK), rivest shamir adelman (RSA), sensor networks

12 <u>Networking experience: Understanding packet delivery performance in dense wireless</u> sensor networks

Jerry Zhao, Ramesh Govindan

Novémber 2003 Proceedings of the 1st international conference on Embedded networked sensor systems

Full text available: pdf(501.89 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wireless sensor networks promise fine-grain monitoring in a wide variety of environments. Many of these environments (e.g., indoor environments or habitats) can be harsh for wireless communication. From a networking perspective, the most basic aspect of wireless communication is the packet delivery performance: the spatio-temporal characteristics of packet loss, and its environmental dependence. These factors will deeply impact the performance of data acquisition from these networks. In th ...

Keywords: low power radio, packet loss, performance measurement

13 Design, analysis, and implementation of DVSR: a fair high-performance protocol for packet rings



Violeta Gambiroza, Ping Yuan, Laura Balzano, Yonghe Liu, Steve Sheafor, Edward Knightly February 2004 IEEE/ACM Transactions on Networking (TON), Volume 12 Issue 1

Full text available: pdf(671.81 KB) Additional Information: full citation, abstract, references, index terms

The Resilient Packet Ring (RPR) IEEE 802.17 standard is a new technology for high-speed backbone metropolitan area networks. A key performance objective of RPR is to simultaneously achieve high utilization, spatial reuse, and fairness, an objective not achieved by current technologies such as SONET and Gigabit Ethernet nor by legacy ring technologies such as FDDI. The core technical challenge for RPR is the design of a bandwidth allocation algorithm that dynamically achieves these three properti ...

Keywords: dynamic bandwidth allocation, fairness, metro rings, scheduling

Self-configuring localization systems: Design and Experimental Evaluation



Nirupama Bulusu, John Heidemann, Deborah Estrin, Tommy Tran		
February 2004 ACM Transactions on Embedded Computing Systems (1	TECS),	Volume 3 Issue
1		

Full text available: pdf(261.39 KB)

Additional Information: full citation, abstract, references, citings, index terms

Embedded networked sensors promise to revolutionize the way we interact with our physical environment and require scalable, ad hoc deployable and energy-efficient node localization/positioning. This paper describes the motivation, design, implementation, and experimental evaluation (on sharply resource-constrained devices) of a self-configuring localization system using radio beacons. We identify beacon density as an important parameter in determining localization quality, which sat ...

Keywords: Location, localization, self-configuration, sensor networks

15 Tools: NIST Net: a Linux-based network emulation tool

Mark Carson, Darrin Santay

July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3

Additional Information: full citation, abstract, references Full text available: ndf(509.00 KB)

Testing of network protocols and distributed applications has become increasingly complex, as the diversity of networks and underlying technologies increase, and the adaptive behavior of applications becomes more sophisticated. In this paper, we present NIST Net, a tool to facilitate testing and experimentation with network code through emulation. NIST Net enables experimenters to model and effect arbitrary performance dynamics (packet delay, jitter, bandwidth limitations, congestion, pac ...

¹⁶ A formal framework for modelling and analysing mobile systems

Graeme Smith

January 2004 Proceedings of the 27th conference on Australasian computer science -Volume 26

Full text available: pdf(171.04 KB) Additional Information: full citation, abstract, references

This paper presents a formal framework for modelling and analysing mobile systems. The framework comprises a collection of models of the dominant design paradigms which are readily extended to incorporate details of particular technologies, i.e., programming languages and their run-time support, and applications. The modelling language is Object-Z, an extension of the well-known Z specification language with explicit support for objectoriented concepts. Its support for object orientation makes ...

Keywords: formal methods, mobile computing, object orientation

17 The case for services over cascaded networks

Anthony D. Joseph, B. R. Badrinath, Randy H. Katz

October 1998 Proceedings of the 1st ACM international workshop on Wireless mobile multimedia

Full text available: ndf(1.08 MB) Additional Information: full citation, references, citings, index terms

18 Cases and experiences: Technology trouble? talk to us: findings from an ethnographic field study

Ellen Balka, Nicki Kahnamoui

 $July\ 2004$ Proceedings of the eighth conference on Participat ry design: Artful integration: interweaving media, materials and practices - Volume 1 Full text available: pdf(1.16 MB)

Additional Information: full citation, abstract, references

The notion that the design of technology is only fully completed when in use [23] is shared by many who now investigate user participation in design and the domestication of new technologies. Taking this idea as our starting point, we developed a research to action project with a major Canadian hospital. Our goals were to address technology implementation issues that arose as most units in the hospital moved to a new building, in which most technology (ranging from wired beds to drug dispensing ...

19 Software engineering and middleware: XML middleware to services on STB

Devyani Pujari, Niral Jhaveri, Juan Carlos Guzmán

April 2004 Proceedings of the 42nd annual Southeast regional conference

Full text available: pdf(273.07 KB) Additional Information: full citation, abstract, references, index terms

The potential of the set-top box has accelerated the future of home network. We present in this paper our ideas and implementation to illustrate the benefits of XML as a messaging protocol between the client and the services on the set-top box. To that end, the capability of using XML as the message exchange language and protocol for services residing on the STB are shown by prototypical applications of a CD player and a Lego Controller. The first application is able to access a CD Drive on the ...

Keywords: Personal Digital Assistants, Set-top box (STB), XML, computing, home network, services, wireless, wireless 802.11b

20 Agents, interactions, mobility, and systems (AIMS): Software agents for process monitoring and notification

Larry Bunch, Maggie Breedy, Jeffrey M. Bradshaw, Marco Carvalho, Niranjan Suri, Andrzej Uszok, Jack Hansen, Michal Pechoucek, Vladimir Marik

March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Full text available: pdf(974.16 KB) Additional Information: full citation, abstract, references, index terms

Safety and efficiency are primary concerns in chemical processing facilities, though the complexity of many such systems often makes it difficult for operators to detect abnormal conditions before they compromise throughput or become hazardous. In this paper, we report initial results from the application of multi-agent systems to monitor complex chemical processes and flexibly and appropriately notify key plant personnel about off-nominal conditions.

Keywords: DAML, FlexFeed, KAOS, KARMEN, OWL, agent, chemical process, monitoring, notification, ontology, policy

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21 The duality of memory and communication in the implementation of a multiprocessor operating system

M. Young, A. Tevanian, R. Rashid, D. Golub, J. Eppinger

November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles, Volume 21 Issue 5

Full text available: pdf(1.26 MB)

Additional Information: full citation, abstract, references, citings, index terms

The MANTIS MultimodAl system for NeTworks of In-situ wireless Sensors provides a new multithreaded embedded operating system integrated with a general-purpose single-board hardware platform to enable flexible and rapid prototyping of wireless sensor networks. The key design goals of MANTIS are ease of use, i.e. a small learning curve that encourages novice programmers to rapidly prototype novel sensor networking applications in software and hardware, as well as flexibility, ...

Keywords: GPS, dynamic reprogramming, lightweight, multimodal prototyping, operating systems, wireless sensor networks

24 Reprogrammable network packet processing on the field programmable port extender (FPX)

John W. Lockwood, Naji Naufel, Jon S. Turner, David E. Taylor

February 2001 Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate arrays

Full text available: pdf(257.98 KB)

Additional Information: full citation, abstract, references, citings, index terms

A prototype platform has been developed that allows processing of packets at the edge of a multi-gigabit-per-second network switch. This system, the Field Programmable Port Extender (FPX), enables packet processing functions to be implemented as modular components in reprogrammable hardware. All logic on the on the FPX is implemented in two Field Programmable Gate Arrays (FPGAs). Packet processing functions in the system are implemented as dynamically-loadable modules. Core functi ...

Keywords: ATM, FPGA, IP, Internet, hardware, modularity, network, packet, processing, reconfiguration, routing

25 Cases from the field: Field studies of computer system administrators: analysis of system management tools and practices

Rob Barrett, Eser Kandogan, Paul P. Maglio, Eben M. Haber, Leila A. Takayama, Madhu Prabaker

November 2004 Proceedings of the 2004 ACM conference on Computer supported cooperative work

Full text available: pdf(405.09 KB) Additional Information: full citation, abstract, references, index terms

Computer system administrators are the unsung heroes of the information age, working behind the scenes to configure, maintain, and troubleshoot the computer infrastructure that underlies much of modern life. However, little can be found in the literature about the practices and problems of these highly specialized computer users. We conducted a series of field studies in large corporate data centers, observing organizations, work practices, tools, and problem-solving strategies of system admi ...

Keywords: collaboration, command-line interfaces, ethnography, situation awareness, system administration

²⁶ From RIG to Accent to Mach: the evolution of a network operating system

Richard F. Rashid

November 1999 Proceedings of 1986 ACM Fall joint computer conference

Full text available: pdf(1.12 MB) Additional Information: full citation, references, citings, index terms

	Remote repair, diagnostics, and maintenance	
	Markus Biehl, Edmund Prater, John R. McIntyre November 2004 Communications of the ACM, Volume 47 Issue 11	
	Full text available: pdf(113.17 KB) html(30.19 KB) Additional Information: full citation, abstract, references, index terms	
	An overview and comparison of the U.S., Japanese, and German machine tool industries.	
28	Maté: a tiny virtual machine for sensor networks	
	Philip Levis, David Culler	
	October 2002 Proceedings of the 10th international conference on Architectural support for programming languages and operating systems, Volume 37, 30, 36 Issue 10, 5, 5	
	Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings	
	Composed of tens of thousands of tiny devices with very limited resources ("motes"), sensor networks are subject to novel systems problems and constraints. The large number of motes in a sensor network means that there will often be some failing nodes; networks must be easy to repopulate. Often there is no feasible method to recharge motes, so energy is a precious resource. Once deployed, a network must be reprogrammable although physically unreachable, and this reprogramming can be a significan	
29	Session III: Mobility Management in multimedia networks: Mobility support in unified	
	communication networks	
	Helen J. Wang, Randy H. Katz	
	July 2001 Proceedings of the 4th ACM international workshop on Wireless mobile multimedia	٠
	Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, index terms	
	Rapid advances in communication networks and device technologies have enabled people with powerful means of communications. It is common for any individual to be associated with a number of heterogeneous communication devices (such as phones, pagers, PDAs) or a variety of applications (such as e-mail, instant messaging, or chat-rooms). This phenomenon has spurred a great demand for <i>unifie dcommunication</i> [20] services which integrate one's various communication mechanisms in a meaningful a	
30	Pen computing: a technology overview and a vision	
	André Meyer July 1995 ACM SIGCHI Bulletin, Volume 27 Issue 3	
	Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms	
	This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic	

31 Wireless personal area networks: an overview of the IEEE P802.15 working group

Richard C. Braley, Ian C. Gifford, Robert F. Heile January 2000 ACM SIGMOBILE Mobile C mputing and Communicati ns Review, Volume 4 Issue 1

Full text available: pdf(1.04 MB) Additional Information: full citation, index terms

32 Transport and Routing Protocols: PSFQ: a reliable transport protocol for wireless	
sensor networks	
Chieh-Yih Wan, Andrew T. Campbell, Lakshman Krishnamurthy September 2002 Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications	
Full text available: pdf(491.58 KB) Additional Information: full citation, abstract, references, citings, index terms	
We propose PSFQ (Pump Slowly, Fetch Quickly), a reliable transport protocol suitable for a new class of reliable data applications emerging in wireless sensor networks. For example, currently sensor networks tend to be application specific and are typically hard-wired to perform a specific task efficiently at low cost; however, there is an emerging need to be able to re-task or reprogram groups of sensors in wireless sensor networks on the fly (e.g., during disaster recovery). Due to the	
Keywords: reliable transport protocols, wireless sensor networks	
33 Security: Ariadne:: a secure on-demand routing protocol for ad hoc networks	
Yih-Chun Hu, Adrian Perrig, David B. Johnson September 2002 Proceedings of the 8th annual international conference on Mobile computing and networking	
Full text available: pdf(308.15 KB) Additional Information: full citation, abstract, references, citings, index terms	
a secure on-demand routing protocol for ad hoc networks.	
Keywords: ad hoc network routing, routing, security	
34 Poster abstracts: Parallel processing over mobile ad hoc networks of handheld	
machines	
Michael J. Jipping, Gary Lewandowski October 2001 Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing	
Full text available: pdf(156.72 KB) Additional Information: full citation, abstract, references, index terms	
In this paper, we describe the formatting guidelines for ACM SIG Proceedings.	
35 Strategic directions in networks and telecommunications	
David Clark, Joseph Pasquale December 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 4	
Full text available: pdf(204.75 KB) Additional Information: full citation, references, citings, index terms	
The Jini architecture: dynamic services in a flexible network	
Ken Arnold June 1999 Proceedings of the 36th ACM/IEEE conference on Design automation	
Full text available: pdf(62.17 KB) Additional Information: full citation, references, citings, index terms	
Keywords : Java, Jini, distributed computing, distribution, networks	

Emerging business models for Clayton A. Looney, Leonard M. Je	essup, Joseph S. Valaci	ch						
June 2004 Communications of	the ACM,Volume 47 Issu	e 6						
Full text available: pdf(129.85 KB) html(34.07 KB)	Additional Information: full	citation, abs	tract, re	ference	s, index	term	<u>s</u>	
Business models designed spe each model has unique advant in choosing among them.								9
38 Cinco Network's WebXRay								
Gilbert Held ^{July 1998} International Journa	l of Network Manage	ment, vo	lume 8 Is	ssue 4				
Full text available: 1 pdf/250.07	dditional Information: <u>full cita</u>							
³⁹ Energy-conserving access pro		on netwo	rks					
Imrich Chlamtac, Chiara Petrioli, February 1999 IEEE/ACM Trans	Jason Redi actions on Networkir	ng (TON)	, Volum	e 7 Issu	e 1			
Full text available: pdf(257.54 KB)	Additional Information: full					erms		
40 MEMOS: an interactive assisting architecture and functionality	ve system for prospe	ctive me	mory o	deficit	comp	ens	ation	-
Hendrik Schulze September 2004 ACM SIGACCES	S Accessibility and C	omputin	n Dro	coodi	nac o	f tha	ACN	
	Iference on Compute Additional Information: full	rs and ac	cessil	oility,	Issue 7	7-78		ı
The Mobile Extensible Memory which was developed to suppo brain injury. A special palmtop patient of important tasks and a stationary care system via a features structured interactive	rt patients with deficits computer, the Person supervises the patient bidirectional cellular ra	in the product in the product of the	ospecti Assist The P	ve me ant (P MA co	mory MA), r mmun	after emin icate	a nds th	
Keywords : assistive technolo application, mobile computing,					id, hea	alth c	care	
Results 21 - 40 of 200	Result page: previous	<u>1</u> 2	<u>3</u> <u>4</u>	<u>5</u> <u>6</u>	<u>7</u> <u>8</u>	<u>9</u>	<u>10</u>	next
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Results 41 - 60 of 200 Result page: previous 1 2 3 4 5 6 7 8 9 10 next Relevance scale
The integration of virtual memory management and interprocess communication in
Accent
Robert Fitzgerald, Richard F. Rashid May 1986 ACM Transactions on Computer Systems (TOCS), Volume 4 Janua 2
May 1986 ACM Transactions on Computer Systems (TOCS), Volume 4 Issue 2
Full text available: pdf(2.45 MB) Additional Information: full citation, abstract, references, citings, index terms
The integration of virtual memory management and interprocess communication in the Accent network operating system kernel is examined. The design and implementation of the Accent memory management system is discussed and its performance, both on a series of message-oriented benchmarks and in normal operation, is analyzed in detail.
42 A method of data transfer control during handoffs in mobile-IP based multimedia
networks
P. Venkataram, R. Rajavelsamy, S. Laxmaiah April 2001 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 5 Issue 2
Full text available: pdf(796.18 KB) Additional Information: full citation, abstract, references
Applications that require untethered access, in real-time, to multimedia information sources are made possible by mobile multimedia networks. These include support for decision makers in the field, crisis management and response, law enforcement, etc. The multimedia applications demand constant and continuous flow of data from the integrated sources. So, the network should support continuous transfer of information to the mobile hosts. However, the handoffs initiated by the mobile hosts will not
43 Applications and OS: Wireless sensor networks for habitat monitoring
Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson September 2002 Proceedings of the 1st ACM international workshop on Wireless sensor
networks and applications
Full text available: pdf(542.04 KB) Additional Information: full citation, abstract, references, citings, index terms

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities for remote data access and management. A system architecture is proposed to address these requirements for habitat monitoring in general, and an instance of the architecture for monitoring seabird nesting environment and behavior is presented. The cu ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

44	Modeling methodology: Parallel execution of a sequential network simulator
	Kevin G. Jones, Samir R. Das
	December 2000 Proceedings of the 32nd conference on Winter simulation
	Full text available: pdf(72.42 KB) Additional Information: full citation, abstract, references, citings
	Parallel discrete event simulation (PDES) techniques have not yet made a substantial impact on the network simulation community because of the need to recast the simulation models using a new set of tools. To address this problem, we present a case study in transparently parallelizing a widely used network simulator, called <i>ns</i> . The use of this parallel <i>ns</i> does not require the modeler to learn any new tools or complex PDES techniques. The paper describes our approach and design choi
45	Building efficient wireless sensor networks with low-level naming
	John Heidemann, Fabio Silva, Chalermek Intanagonwiwat, Ramesh Govindan, Deborah Estrin,
	Deepak Ganesan
	October 2001 ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5
	Additional Information: full citation, abstract, references, citings, index
	Full text available: pdf(1.54 MB) terms
	In most distributed systems, naming of nodes for low-level communication leverages topological location (such as node addresses) and is independent of any application. In this paper, we investigate an emerging class of distributed systems where low-level communication does not rely on network topological location. Rather, low-level communication is based on attributes that are <i>external</i> to the network topology and <i>relevant</i> to the application. When combined with dense deployment of n
46	Sensor networks and energy management: Effects of power conservation, wireless
	coverage and cooperation on data dissemination among mobile devices
	Maria Papadopouli, Henning Schulzrinne
	October 2001 Proceedings of the 2nd ACM international symposium on Mobile ad hoc
	networking & computing
	Full text available: pdf(313.06 KB) Additional Information: full citation, abstract, references, citings, index terms
	This paper presents 7DS, a novel peer-to-peer data sharing system. 7DS is an architecture, a set of protocols and an implementation enabling the exchange of data among peers that are not necessarily connected to the Internet. Peers can be either mobile or stationary. It anticipates the information needs of users and fulfills them by searching from information among peers. We evaluate via extensive simulations the effectiveness of our system for data dissemination among mobile devices with a larg
47	A comprehensive approach to signaling, transmission, and traffic management for
	wireless ATM networks
	Anthony Burrell, P. Papantoni-Kazakos September 2001 Wireless Networks , Volume 7 Issue 4
	Full text available: pdf(331.30 KB) Additional Information: full citation, abstract, references, index terms
	We propose and evaluate a signaling and transmission algorithmic system for wireless digital

networks, in conjunction with a Traffic Monitoring Algorithm (TMA) for dynamic capacity allocation in multimedia ATM environments. The deployed signaling protocol is stable, and

two transmission techniques are compared: a Framed Time-Domain Based (FTDB) technique and a Framed CDMA (FCDMA) technique. The overall signaling/transmission/traffic monitoring proposed system has powerful performance characteris ...

Keywords: multimedia environments, signaling and transmission, traffic monitoring, wireless

48	Research challenges in wireless networks of biomedical sensors	
	Loren Schwiebert, Sandeep K.S. Gupta, Jennifer Weinmann July 2001 Proceedings of the 7th annual international conference on Mobile computing and networking	
	Full text available: pdf(612.60 KB) Additional Information: full citation, abstract, references, citings, index terms	
	Implanted biomedical devices have the potential to revolutionize medicine. Smart sensors, which are created by combining sensing materials with integrated circuitry, are being considered for several biomedical applications such as a glucose level monitor or a retina prosthesis. These devices require the capability to communicate with an external computer system (base station) via a wireless interface. The limited power and computational capabilities of smart sensor based biological imp	
49	Wireless Andrew: building a high speed, campus-wide wireless data network	
	Bernard J. Bennington, Charles R. Bartel January 2001 Mobile Networks and Applications, Volume 6 Issue 1	
	Full text available: pdf(159.87 KB) Additional Information: full citation, references, index terms	
	Keywords: Andrew, WaveLAN, integration, wireless network	
50	Networking support for mobile computing	
	Upkar Varshney January 1999 Communications of the AIS	
	Full text available: pdf(121.38 KB) Additional Information: full citation, references	
51	Enhancing the computer networking curriculum	
	Jon Rickman, Merry McDonald, Gary McDonald, Phillip Heeler June 2001 ACM SIGCSE Bulletin, Proceedings of the 6th annual conference on Innovation and technology in computer science education, Volume 33 Issue 3	
	Full text available: pdf(393.09 KB) Additional Information: full citation, abstract, references, citings, index terms	
	An increasing number of students in computer science are requesting advanced study and active learning experiences in computer networking. Employers need graduates who not only understand the fundamentals of networking but those who can quickly be involved in network administration. Meeting these demands in the curriculum suggests that new and well-planned laboratory and internship experiences should be incorporated into the computer science curriculum. However, there are some major challenges i	
52	A conceptual framework for network and client adaptation	
	B. Badrinath, Armando Fox, Leonard Kleinrock, Gerald Popek, Peter Reiher, M. Satyanarayanar December 2000 Mobile Networks and Applicati ns , Volume 5 Issue 4	1

Full text available: ndf(218.24 KB)

elements. A number of researchers have proposed solutions to these problems based on dynamic adaptation to changing network conditions and application requirements. This paper summarizes the results of several such projects and extracts several important general lessons learned about adapting data flows over difficult network condi ... 53 Why web-based network monitoring? Leveraging the platform Ron D. Jenkins May 1999 International Journal of Network Management, Volume 9 Issue 3 Full text available: 🙀 pdf(494.08 KB) Additional Information: full citation, abstract, index terms The increasing use of network monitoring and the growth of the Internet and intranets are converging trends that make IP network infrastructures the logical means of delivering network monitoring, using browser -bused clients. Copyright © 1999 John Wiley & Sons, Ltd. 54 Clustering algorithms for wireless ad hoc networks Lakshmi Ramachandran, Manika Kapoor, Abhinanda Sarkar, Alok Aggarwal $^{
m August\,2000}$ Proceedings of the 4th international workshop on Discrete algorithms and methods for mobile computing and communications Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.04 MB) terms Efficient clustering algorithms play a very important role in the fast connection establishment of ad hoc networks. In this paper, we describe a communication model that is derived directly from that of Bluetooth, an emerging technology for pervasive computing; this technology is expected to play a major role in future personal area network applications. We further propose two new distributed algorithms for clustering in wireless ad hoc networks. The existing algorithms often become infeasi ... ⁵⁵ BlueSky: a cordless networking solution for palmtop computers Pravin Bhagwat, Ibrahim Korpeoglu, Chatschik Bisdikian, Mahmoud Naghshineh, Satish K. Tripathi August 1999 Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking Full text available: pdf(1.31 MB) Additional Information: full citation, references, index terms ⁵⁶ 'Smart' and 'Stupid' networks: why the Internet is like Microsoft Andrew Odlyzko November 1998 netWorker, Volume 2 Issue 5 Additional Information: full citation, references, index terms Full text available: pdf(1.01 MB) 57 Mobile awareness in a wide area wireless network of info-stations Tao Ye, H.-Arno Jacobsen, Randy Katz October 1998 Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking Additional Information: full citation, references, citings, index terms Full text available: pdf(1.34 MB)

Modern networks are extremely complex, varying both statically and dynamically. This complexity and dynamism are greatly increased when the network contains mobile

Additional Information: full citation, abstract, references, citings, index

58 Cluster-based scalable network services				
Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier October 1997 ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth	_			
ACM symposium on Operating systems principles, Volume 31 Issue 5				
Full text available: pdf(2.42 MB) Additional Information: full citation, references, citings, index terms				
⁵⁹ Transmission policies and traffic management in multimedia wireless networks				
Anthony Burrell, Harold P. Stern, P. Papantoni-Kazakos May 1997 Wireless Networks, Volume 3 Issue 2				
Additional Information: full citation, abstract, references, citings, index	-			
Full text available: pdf(358.34 KB) Additional mioritation. idit citation, abstract, references, durings, index terms				
We consider multimedia wireless networks in environments where traffic characterizations				
and traffic rates are generally time-varying. For such networks we propose a CDMA				
transmission policy, in conjunction with a moving boundaries concept induced by a traffic monitoring high-level protocol. The proposed transmission/traffic management technique is				
analyzed and numerically evaluated.				
60 Wireless Andrew: experience building a high speed, campus-wide wireless data				
network				
Bernard J. Bennington, Charles R. Bartel September 1997 Proceedings of the 3rd annual ACM/IEEE international conference on				
Mobile computing and networking				
Full text available: pdf(1.48 MB) Additional Information: full citation, references, citings, index terms				
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Terms used reprograming and pager network Found 54,932 of 148,162
Sort results by Display results Displa
Results 61 - 80 of 200 Result page: previous 1 2 3 4 5 6 7 8 9 10 next Relevance scale \square
Adapting to network and client variability via on-demand dynamic distillation Armando Fox, Steven D. Gribble, Eric A. Brewer, Elan Amir October 1996 Proceedings of the seventh international conference on Architectural support for programming languages and operating systems, Volume 30, 31 Issue 5, 9 Full text available: pdf(1.64 MB) Additional Information: full citation, abstract, references, citings, index terms The explosive growth of the Internet and the proliferation of smart cellular phones and handheld wireless devices is widening an already large gap between Internet clients. Clients vary in their hardware resources, software sophistication, and quality of connectivity, yet server support for client variation ranges from relatively poor to none at all. In this paper we introduce some design principles that we believe are fundamental to providing "meaningful" Internet access for the entire range of
U-Net: a user-level network interface for parallel and distributed computing (includes URL) T. von Eicken, A. Basu, V. Buch, W. Vogels December 1995 ACM SIGOPS Operating Systems Review, Proceedings of the fifteenth ACM symposium on Operating systems principles, Volume 29 Issue 5 Full text available: pdf(1.84 MB) Additional Information: full citation, references, citings, index terms
Experiences with a high-speed network adaptor: a software perspective Peter Druschel, Larry L. Peterson, Bruce S. Davie October 1994 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Communications architectures, protocols and applications, Volume 24 Issue 4 Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes our experiences, from a software perspective, with the OSIRIS network adaptor. It first identifies the problems we encountered while programming OSIRIS and optimizing network performance, and outlines how we either addressed them in the software, or had to modify the hardware. It then describes the opportunities provided by OSIRIS that we were able to exploit in the host operating system (OS); opportunities that suggested techniques for making the OS more effective in d ...

64	System architecture directions	s for networked se	ensors	_
		the ninth interna	David Culler, Kristofer Pister tional conference on Architectural ges and operating systems, Volume 34,	
	Full text available: pdf(299.01 KB)	Additional Information	: full citation, abstract, references, citings, index terms	
	makes a rich design space of the physical world and spread elements are an overall system	networked sensors throughout our en n architecture and irements, develop a	CMOS communication devices and sensors viable. They can be deeply embedded in vironment like smart dust. The missing a methodology for systematic advance. To a small device that is representative of the m, and sh	
65	System archtecture directions	for networked se	nsors	_
	Jason Hill, Robert Szewczyk, Ale November 2000 ACM SIGPLAN N	c Woo, Seth Hollar, Notices , Volume 35 I	David Culler, Kristofer Pister	
	Full text available: pdf(1.32 MB)	Additional Information	: full citation, abstract, references, citings, index terms	
	makes a rich design space of i the physical world and spread elements are an overall syster	networked sensors throughout our en n architecture and irements, develop a	CMOS communication devices and sensors viable. They can be deeply embedded in vironment like smart dust. The missing a methodology for systematic advance. To a small device that is representative of the m, and sh	
66	A real-time medium access co	ontrol protocol for	ad hoc wireless local area networks	_
	Rusty O. Baldwin, Nathaniel J. D April 1999 ACM SIGMOBILE Mo Issue 2	avis, Scott F. Midki bile Computing a	ff nd Communications Review, Volume 3	
	Full text available: pdf(1.15 MB)	Additional Information	: full citation, abstract, references, citings	
	transmitting real-time data in Our enhancement of IEEE 802 mean delay, missed deadlines	point to point ad he 2.11, real-time MAC , and packet collision. For example, in	m access control (MAC) protocol for use in oc wireless local area networks (WLANs). (RT-MAC), achieves dramatic reductions in ons by selectively discarding packets and a 50 station network with a normalized	
67	The asymptotic complexity of	merging networks	s	
	Peter Bro Miltersen, Mike Paterso January 1996 Journal of the AC	on, Jun Tarui M (JACM) , Volume	- 43 Issue 1	
	Full text available: pdf(1.55 MB)	Additional Information	: full citation, abstract, references, citings, index terms	
			forsneeded in a comparator network that elements y1 \leq y2 \leq &cdots \leq yn , where n \geq	
	Keywords: comparator netwo	ork meraina sortin	na	

68 Systems II: An analysis of a large scale habitat monitoring application Robert Szewczyk, Alan Mainwaring, Joseph Polastre, John Anderson, David Culler November 2004 Proceedings of the 2nd international conference on Embedded

networked sensor systematical	ems
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Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, index terms

Habitat and environmental monitoring is a driving application for wireless sensor networks. We present an analysis of data from a second generation sensor networks deployed during the summer and autumn of 2003. During a 4 month deployment, these networks, consisting of 150 devices, produced unique datasets for both systems and biological analysis. This paper focuses on nodal and network performance, with an emphasis on lifetime, reliability, and the the static and dynamic aspects of single an ...

Keywords: application analysis, habitat monitoring, implementation, long-lived systems, microclimate monitoring, network architecture, sensor networks

Architectures: A perspective on the future of massively parallel computing: fine-grain vs. coarse-grain parallel models comparison & contrast

Predrag T. Tosic

April 2004 Proceedings of the first conference on computing frontiers on Computing frontiers

Full text available: pdf(277.49 KB) Additional Information: full citation, abstract, references, index terms

Models, architectures and languages for *parallel computation* have been of utmost research interest in computer science and engineering for several decades. A great variety of parallel computation models has been proposed and studied, and different parallel and distributed architectures designed as some possible ways of harnessing parallelism and improving performance of the general purpose computers. *Massively parallel connectionist models* such as *artificial neural networks* (...

Keywords: cellular automata, distributed systems, massively parallel computing, multiprocessor computers, neural networks, parallel computation models

70 Software engineering for mobility: a roadmap

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy

May 2000 Proceedings of the Conference on The Future of Software Engineering

Full text available: pdf(2.07 MB) Additional Information: full citation, references, citings, index terms

71 Technical opinion: Current and future applications of mobile and wireless networks

Rajeswari Malladi, Dharma P. Agrawal

October 2002 Communications of the ACM, Volume 45 Issue 10

Full text available: pdf(80.48 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless and mobile networks are being used in diverse areas such as travel, education, stock trading, military, package delivery, disaster recovery, and medical emergency care.

72 Characteristics of WAP traffic

Irene C. Y. Ma, James Irvine

January 2004 Wireless Networks, Volume 10 Issue 1

Full text available: pdf(328.62 KB) Additional Information: full citation, abstract, references, index terms

This paper considers the characteristics of Wireless Application Protocol (WAP) traffic. We start by constructing a WAP traffic model by analysing the behaviour of users accessing public WAP sites via a monitoring system. A wide range of different traffic scenarios were considered, but most of these scenarios resolve to one of two basic types. The paper then

uses this traffic model to consider the effects of large quantities of WAP traffic on the core network. One traffic characteristic which is \dots

Keywords: WAP, mobile data, self-similarity, traffic modelling

73	Poster Session: Poster abstract: mantis - system supports for multimodAl neTworks on	
	in-situ sensors	
	Hector Abrach, Shah Bhatti, Jim Carlson, Hui Dai, Jeff Rose, Anmol Sheth, Brian Shucker, Jing	
	Deng, Richard Han November 2003 Proceedings of the 1st international conference on Embedded	
	networked sensor systems	
	Full text available: pdf(147.37 KB) Additional Information: full citation, abstract, references, index terms	
	The MANTIS MultimodAl system for NeTworks of In-situ wireless Sensors provides a new multithreaded embedded operating system integrated with a general-purpose single-board hardware platform to enable flexible and rapid prototyping of wireless sensor networks.	
	Keywords : GPS, dynamic reprogramming, lightweight, multimodal prototyping, operating systems, wireless sensor networks	
74	Distributed termination detection in a mobile wireless network	
	Jeff Matocha April 1998 Proceedings of the 36th annual Southeast regional conference	
	Full text available: pdf(801.32 KB) Additional Information: full citation, references, index terms	
75	Knowledge management session 3: classification: Adding numbers to text classification Sofus A. Macskassy, Haym Hirsh November 2003 Proceedings of the twelfth international conference on Information and knowledge management Full text available: pdf(188.69 KB) Additional Information: full citation, abstract, references, index terms Many real-world problems involve a combination of both text- and numerical-valued features. For example, in email classification, it is possible to use instance representations that consider not only the text of each message, but also numerical-valued features such as the length of the message or the time of day at which it was sent. Text-classification methods have thus far not easily incorporated numerical features. In earlier work we	
	described an approach for converting numerical features int Keywords : information retrieval, machine learning, numerical features, text classification	
76	Risks to the public: Risks to the public in computers and related systems	
	Peter G. Neumann May 2004 ACM SIGSOFT Software Engineering Notes, Volume 29 Issue 3	
	Full text available: pdf(128.46 KB) Additional Information: full citation	
77	Security as a new dimension in embedded system design: Security as a new	_
	dimension in embedded system design	
	Srivaths Ravi, Paul Kocher, Ruby Lee, Gary McGraw, Anand Raghunathan	

June 2004 Proceedings of the 41st annual c nference on Design automation

Full text available: pdf(209.10 KB) Additional Information: full citation, abstract, references, index terms

The growing number of instances of breaches in information security in the last few years has created a compelling case for efforts towards secure electronic systems. Embedded systems, which will be ubiquitously used to capture, store, manipulate, and access data of a sensitive nature, pose several unique and interesting security challenges. Security has been the subject of intensive research in the areas of cryptography, computing, and networking. However, despite these efforts, *security is* ...

Keywords: PDAs, architectures, battery life, cryptography, design, design methodologies, digital rights management, embedded systems, performance, security, security processing, security protocols, sensors, software attacks, tamper resistance, trusted computing, viruses

78 The mobile people architecture

Petros Maniatis, Mema Roussopoulos, Ed Swierk, Kevin Lai, Guido Appenzeller, Xinhua Zhao, Mary Baker

July 1999 ACM SIGMOBILE Mobile Computing and Communications Review, Volume 3 Issue 3

Full text available: pdf(946.60 KB) Additional Information: full citation, abstract, citings, index terms

People are the outsiders in the current communications revolution. Computer hosts, pagers, and telephones are the addressable entities throughout the Internet and telephony systems. Human beings, however, still need application-specific tricks to be identified, like email addresses, telephone numbers, and ICQ IDs. The key challenge today is to find people and communicate with them personally, as opposed to communicating merely with their possibly inaccessible machines---cell phones that are turn ...

79 Chat I: Introducing chat into business organizations: toward an instant messaging maturity model

Michael J. Muller, Mary Elizabeth Raven, Sandra Kogan, David R. Millen, Kenneth Carey November 2003 Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work

Full text available: pdf(647.22 KB) Additional Information: full citation, abstract, references, index terms

We provide the first study of instant messaging (IM) based on large samples of users' self reports. Previous studies have relied on ethnographic methods or analysis of server logs. Our self-report approach has its own strengths (large-sample; focus on attitudes, beliefs, and value attributions), as well as weaknesses (self-selection by respondents). We describe the introduction of Lotus SametimeTM, an IM product, into three business organizations. Across the three organizations, we found su ...

Keywords: CSCW, chat, computer mediated communication, instant messaging, office computing, synchronous communication

80 Content-triggered trust negotiation

Adam Hess, Jason Holt, Jared Jacobson, Kent E. Seamons

August 2004 ACM Transactions on Information and System Security (TISSEC), Volume 7
Issue 3

Full text available: pdf(815.36 KB) Additional Information: full citation, abstract, references, index terms

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources is usually static, and an access control policy associated with each resource specifies who is authorized to access the resource. In this article, we turn the traditional client/server access control model on its head and address how to protect the

sensitive content that clients disclose to and r ...

Keywords: Trust negotiation, access control, authentication, credentials

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Eugene Shih, Paramvir Bahl, Michael J. Sinclair September 2002 Proceedings of the 8th annual inter

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The demand for an all-in-one phone with integrated personal information management and data access capabilities is beginning to accelerate. While personal digital assistants (PDAs) with built-in cellular, WiFi, and Voice-Over-IP technologies have the ability to serve these needs in a single package, the rate at which energy is consumed by PDA-based phones is very high. Thus, these devices can quickly drain their own batteries and become useless to their owner. In this paper, we introduce a techni ...

Keywords: low-power radio, power consumption of wireless LANs, wake-on-wireless

82 Distributed shared memory in a loosely coupled distributed system

B. D. Fleisch

August 1987 ACM SIGCOMM Computer Communication Review, Proceedings of the ACM workshop on Frontiers in computer communications technology, Volume 17 Issue 5

Full text available: pdf(1.32 MB)

Additional Information: full citation, abstract, references, citings, index terms

This work outlines the development and performance validation of an architecture for distributed shared memory in a loosely coupled distributed computing environment. This distributed shared memory may be used for communication and data exchange between communicants on different computing sites; the mechanism will operate transparently and in a distributed manner. This paper describes the architecture of this mechanism and metrics which will be used to measure its performan ...

83 Extensibility safety and performance in the SPIN operating system

B. N. Bershad, S. Savage, P. Pardyak, E. G. Sirer, M. E. Fiuczynski, D. Becker, C. Chambers, S. Eggers

December 1995 ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles, Volume 29 Issue 5

Full text available:

Additional Information:

📆 pdf(2.32 MB)

full citation, references, citings, index terms

84 Machine-independent virtual memory management for paged uniprocessor and multiprocessor architectures



Richard Rashid, Avadis Tevanian, Michael Young, David Golub, Robert Baron October 1987 Proceedings of the second international conference on Architectual support for programming languages and operating systems, Volume 15, 22, 21 Issue 5, 10, 4

Full text available: pdf(1.21 MB) Additional Information: full citation, abstract, citings, index terms

This paper describes the design and implementation of virtual memory management within the CMU Mach Operating System and the experiences gained by the Mach kernel group in porting that system to a variety of architectures. As of this writing, Mach runs on more than half a dozen uniprocessors and multiprocessors including the VAX family of uniprocessors and multiprocessors, the IBM RT PC, the SUN 3, the Encore MultiMax, the Sequent Balance 21000 and several experimental computers. Although these ...

85 ContactMap: Organizing communication in a social desktop



Steve Whittaker, Quentin Jones, Bonnie Nardi, Mike Creech, Loren Terveen, Ellen Isaacs, John Hainsworth

December 2004 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 11 Issue 4

Full text available: pdf(4.29 MB)

Additional Information: full citation, abstract, references, index terms

Modern work is a highly social process, offering many cues for people to organize communication and access information. Shared physical workplaces provide natural support for tasks such as (a) <i>social reminding</i> about communication commitments and keeping track of collaborators and friends, and (b) <i>social data mining</i> of local expertise for advice and information. However, many people now collaborate remotely using tools such as email and voicemail. Our field studie ...

Keywords: Email, human-computer interaction, instant messaging, interpersonal communication, iterative user-centered design, personal information management, personal social desktop, social data mining, social reminding, visualization

86 3b---Short Papers: Our Collective Experience: PageRate: counting Web users' votes



Jianhan Zhu, Jun Hong, John G. Hughes

September 2001 Proceedings of the twelfth ACM conference on Hypertext and Hypermedia

Full text available: pdf(73.44 KB)

Additional Information: full citation, abstract, references, citings, index terms

We propose a PageRate method to give Web pages on a Web site ratings based on the Web link structure and user usage data, which are both recorded in the Web log files. The method is an improvement over PageRank [1, 6]. PageRate can be used to objectively evaluate the importance of pages. A PageClustering algorithm is proposed to cluster Web pages with similar incoming links and ratings. The results are used to integrate with search results returned by search engines.

Keywords: Web link structures, Web log files, clustering, rating

87

	A system for the seamless integration of personal messages using agents developed					
	on a lotus notes platform.					
	Ramiro Liscano, Roger Impey, Paul Gordon, Suhayya Abu-Hakima					
	November 1996 Proceedings of the 1996 conference of the Centre f r Advanced					
	Studies n Collaborative research Full text available: → pdf(92.87 KB) Additional Information: full citation, abstract, references, index terms					
	Full text available: pdf(92.87 KB) Additional Information: full citation, abstract, references, index terms					
	We introduce a seamless messaging system for the management of personal messages. The aim of it is to intercept, filter, interpret, and deliver multimodal messages (voice, fax, and/or e-mail messages). Messages are delivered to the recipient regardless of their target messaging device. Seamless messaging involves finding the person (if urgent) and delivering the information to them on their cellular phone, pager, laptop, nearest fax, telephone, or workstation. The system includes a set of person					
88	Fbufs: a high-bandwidth cross-domain transfer facility					
	Peter Druschel, Larry L. Peterson					
	December 1993 ACM SIGOPS Operating Systems Review , Proceedings of the					
	fourteenth ACM symposium on Operating systems principles, Volume 27					
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	We have designed and implemented a new operating system facility for I/O buffer management and data transferacross protection domain boundaries on shared memory machines. This facility, called <i>fast buffers</i> (fbufs), combines virtual page remapping with shared virtual memory, and exploits locality in I/O traffic to achieve high throughput without compromising protection, security, or modularity. goal is to help deliver the high bandwidth afforded by emerging high-speed networks to user-leve					
89	Extensible file systems in spring					
	Yousef A. Khalidi, Michael N. Nelson					
	December 1993 ACM SIGOPS Operating Systems Review , Proceedings of the					
	fourteenth ACM symposium on Operating systems principles, Volume 27					
	Issue 5 Additional Information: full citation, abstract, references, citings, index					
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	In this paper we describe an architecture for extensible file systems. The architecture enables the extension of file system functionality by composing (or stacking) new file systems on top of existing file systems. A file system that is stacked on top of an existing file system can access the existing file system's files via a well-defined naming interface and can share the same underlying file data in a coherent manner. We describe extending file systems in the context of the Spring operating					
90	Virtual memory versus file interfaces for large, memory-intensive scientific					
	applications					
	Yoonho Park, Ridgway Scott, Stuart Sechrest November 1996 Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM)					
	Full text available: pdf(323.70 KB) Additional Information: full citation, abstract, references, citings, index terms					
	Scientific applications often require some strategy for temporary data storage to do the largest possible simulations. The use of virtual memory for temporary data storage has received criticism because of performance problems. However, modern virtual memory found in recent operating systems such as Cenju-3/DE give application writers control over virtual memory policies. We demonstrate that custom virtual memory policies can dramatically reduce virtual memory overhead and allow application.					

91	A dynamic flexible grouping over CORBA-based network and its application to mobile
	Computing Takashi Okuda, Seiji Adachi, Tetsuo Ideguchi, Hiroshi Yasukawa, Xuejun Tian March 2000 Proceedings f the 2000 ACM symposium on Applied computing
	Full text available: pdf(348.27 KB) Additional Information: full citation, references, index terms
	y di text d'anable.
	Keywords : CORBA-based network, dynamic flexible grouping, flexible work, grouping, virtual organizations
92	Explanation structures in XSEL
	Karen Kukich
	July 1985 Proceedings of the 23rd conference on Association for Computational Linguistics
	Full text available: 📻 pdf(696,45 KB)
	Additional Information: full citation, references, citings Publisher Site
93	Process migration
	September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3
	Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms, review
	Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi
	Keywords : distributed operating systems, distributed systems, load distribution, process migration
94	An introduction to Java 2 micro edition (J2ME); Java in small things
•	James White
	July 2001 Proceedings of the 23rd International Conference on Software Engineering
	Full text available: pdf(139.27 KB) Additional Information: full citation, abstract, index terms Publisher Site
	By now, most people are familiar with the Java 2 platform and how Sun has grouped Java technologies into three editions (Standard, Micro and Enterprise Editions). Sun introduced the Java 2, Micro Edition (J2ME) in June 1999 to address the needs of the consumer electronics and embedded devices community. Specifically, the J2ME was built for devices with limited power, network connectivity (often wireless), and graphical user interface capabilities.
	Today, the J2ME provides a
95	Novel interfaces: Display-agnostic hypermedia
	Unmil P. Karadkar, Richard Furuta, Selen Ustun, YoungJoo Park, Jin-Cheon Na, Vivek Gupta,

Tolga Ciftci, Yungah Park

August 2004 Proceedings of the fifteenth ACM conference on Hypertext & hypermedia

Full text available: pdf(551.99 KB) Additional Information: full citation, abstract, references, index terms

In the diversifying information environment, contemporary hypermedia authoring and filtering mechanisms cater to specific devices. Display-agnostic hypermedia can be flexibly and efficiently presented on a variety of information devices without any modification of their information content. We augment context-aware Trellis (caT) by introducing two mechanisms to support display-agnosticism: development of new browsers and architectural enhancements. We present browsers that reinterpret existing c ...

Keywords: context-aware trellis (caT), display-agnostic hypermedia, multi-device integrated dynamic activity spaces (MIDAS)

96	Reports: Report on the 3rd web dynamics workshop, at WWW'2004	
	Mark Levene, Alexandra Poulovassilis September 2004 ACM SIGMOD Record, Volume 33 Issue 3	
	Full text available: pdf(97.67 KB) Additional Information: full citation, abstract, references	
	The web is highly dynamic in both the content and quantity of the information that it encompasses. In order to fully exploit its enormous potential as a global repository of information, we need to understand how its size, topology, and content are evolving. This then allows the development of new techniques for locating and retrieving information that are better able to adapt and scale to its change and growth. The web's users are highly diverse and can access the it from a variety of device	
97	The performance of µ-kernel-based systems	
	Hermann Härtig, Michael Hohmuth, Jochen Liedtke, Sebastian Schönberg October 1997 ACM SIGOPS Operating Systems Review, Proceedings of the sixteenth ACM symposium on Operating systems principles, Volume 31 Issue 5	
00	Full text available: pdf(2.02 MB) Additional Information: full citation, references, citings, index terms	
98	Toward real microkernels	
	Jochen Liedtke September 1996 Communications of the ACM, Volume 39 Issue 9	
	Full text available: pdf(280.44 KB) Additional Information: full citation, references, citings, index terms	
99	Joking, storytelling, artsharing, expressing affection: a field trial of how children and	
	their social network communicate with digital images in leisure time	
	Ann Mäkelä, Verena Giller, Manfred Tscheligi, Reinhard Sefelin April 2000 Proceedings of the SIGCHI conference on Human factors in computing systems	
	Full text available: pdf(952.01 KB) Additional Information: full citation, abstract, references, citings, index	
	terms	

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experience field trials are the best way of studying it. In this paper, we describe a field-trial case study of leisure related communication with digital images. Moreover, we discuss the

Increasing use of mobile phones in leisure and communication with digital images are important and current issues in the field of telecommunications. However, little is known about how images would be used in leisure related communication. According to our

advantages of conducting field trials as part of pro ...

Keywords: children, digital images, family, field trial, leisure, product concept design, prototypes, wireless communication

100 The sawmill framework for virtual memory diversity

Mohit Aron, Jochen Liedtke, Kevin Elphinstone, Yoonho Park, Trent Jaeger, Luke Deller January 2001 Australian Computer Science Communications, Proceedings of the 6th Australasian conference on Computer systems architecture, Volume 23 Issue

Full text available: pdf(778.72 KB)

Additional Information: full citation, abstract, references

We present a framework that allows applications to build and customize VM services on the L4 microkernel. While the L4 microkernel's abstractions are quite powerful, using these abstractions effectively requires higher-level paradigms. We propose the dataspace paradigm which provides a modular VM framework. The modularity introduced by the dataspace paradigm facilitates implementation and permits dynamic configurability. Initial performance results from a prototype are promising.

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